

Amendment Under 37 C.F.R. §1.312

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Applicant: O'SULLIVAN

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For: ISOLATED BIFIDOBACTERIA THAT PRODUCE SIDEROPHORES WHICH INHIBIT GROWTH OF  
LACTOCOCCUS LACTIS

## ABSTRACT

ISOLATED BIFIDOBACTERIA THAT PRODUCE SIDEROPHORES WHICH  
INHIBIT GROWTH OF LACTOCOCCUS LACTIS

Isolated *Bifidobacterium* strains are obtained that secrete a siderophore that inhibits the growth of microbes in the gastrointestinal tract of an animal. Microbes inhibited include *Lactococcus lactis*, *Clostridium difficile*, and ~~*Clostridium*~~ *Clostridium perfringens*. The *Bifidobacterium* or siderophore isolated from the *Bifidobacterium* can be administered to an animal. The *Bifidobacterium* is grown under iron limiting conditions when obtaining the siderophore. Microbes are inhibited by the siderophore binding iron.